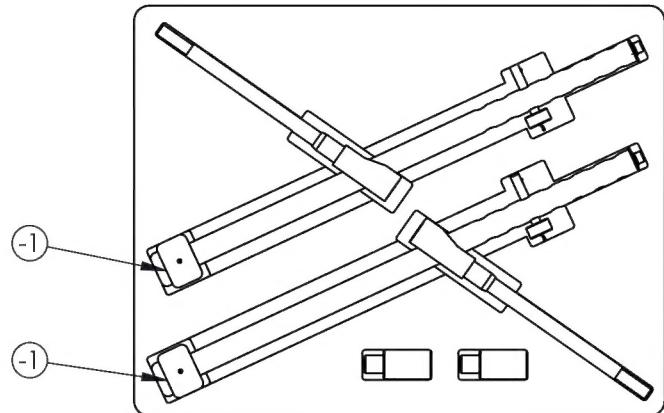


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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
A	-3 ADDED $\phi .190 \downarrow .03$ HOLE FOR -43 SET SCREW. -5 CH'D 1/4-20 UNC COUNTERSINK WAS $\checkmark \phi .38 \times 90^\circ$ IS $\checkmark \phi .50 \times 60^\circ$. -7 ADDED #10-32 $\downarrow .60$ HOLE FOR -43. -13 ADDED MISSING THREAD CALL OUT 2X 1/4-20. BOM -31 CH'D LENGTH WAS 3/4 IS 5/8. -43 ADDED TO BOM & -1 ASSY. -3, -5, -7, -15 CH'D FINISH WAS CLEAR ANODIZE IS RED ANODIZE.	9/3/2013	RJC	DW
1	-3, -5, -7, -15 CH'D FINISH WAS RED ANODIZE IS .0004-.0006 NICKEL PLATE AND ADDED BAKE NOTE. -11 ASSY. REPLACED WITH -15, DELETED -13 & -31. ADDED PARTS -10, -16 AND -45, -47. -3 CAP REMOVED. ADDED TAPPED HOLE 1/2-13 $\downarrow 1.00$. CH'D MATERIAL WAS 6061 1018 CD. CH'D ROD DIA. WAS .99 IS 1.00. CH'D HOLE CALLOUT WAS 7X $\phi .377$ IS 7X $\phi .386$. -5 REMOVED 1/4-20 $\downarrow .75$ THREADED HOLE AND ADDED EXTERNAL 1/2-10-3G ACME THREAD. INCREASED LENGTH OF SHAFT AND LENGTH OF SLOT. CH'D MATERIAL WAS 6061 IS 4140 HEAT TREATED. -7 CH'D MATERIAL WAS 6061 IS 1018 CD. -9 DELETED ONE $\phi .15$ HOLE. CH'D ONE HOLE WAS $\phi .15$ IS .156 -.160 P.F. -47, -15 CH'D GRIP LENGTH WAS .75 IS 2.00 AND OVERALL LENGTH CH'D WAS 1.75 IS 2.82. CH'D MTL WAS 6061 IS 1018 CD. REMOVED PIN HOLE AND THREADED HOLE. ADDED 1/2-10-3G ACME THREADS WITH COUNTER BORE. -33 CH'D CUTOUTS FOR -1 AND -15. -16 ADDED TO BOM AND -1 ASSY. -10 ADDED KNOB TO PUT ON -9.	9/27/13	PW	DW



ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
	X		-1	2	GAG BAR ASSEMBLY			2
1			-3		ROD	1018 CD	$\phi 1 \times 21-5/8$	3
1			-5		PIN BLOCK	4140	$\phi 2 \times 12$	4
1			-7		HOOK BLOCK	1018 CD	$\phi 2 \times 2 \times 3-3/4$	5
1			-9		QUICK RELEASE PIN	S.S.	$\phi 3/8 \times 2$ MCMASTER-CARR #98404A925 (MODIFIED)	6
1			-10		KNOB	1018	$\phi 1 \times 5/8$	11
1			-15		KNOB	1018 CD	$\phi 1-1/4 \times 3$	7
1			-16		BUTTON	1018 CD	$\phi 1-1/2 \times 5/8$	10
1	B/O	-17			SOCKET HEAD CAP SCREW	S.S.	5/16-24 X 1/2 MCMASTER-CARR #92196A335	2
1	B/O	-19			WASHER	S.S.	$\phi 5/16 \times 1-1/4$ MCMASTER-CARR #90313A111	2
1	B/O	-21			WASHER	S.S.	$\phi 5/16$ MCMASTER-CARR #98017A690	2
1	B/O	-23			LANYARD	COATED STEEL	$\phi 1/16 \times 10$ CARR LANE #CL2C	2
1	B/O	-25			LANYARD	COATED STEEL	$\phi 1/16 \times 3$ CARR LANE #CL2C	2
4	B/O	-27			FERRULE	ALUMINUM	$\phi 1/16 \times 3/8$ MCMASTER-CARR #3896T31	2
1	B/O	-29			REMOVE BEFORE FLIGHT	NYLON	NAS 1756-36	2
	B/O	-33	1		BOTTOM TOOL CUSHION	Y20 BLACK	17.09 X 22.09 X 6.10	8
	B/O	-35	1		TOP TOOL CUSHION	Y-20 BLACK	17.09 X 22.09 X 1.90	9
	B/O	-37	1		CASE	PLASTIC	PELICAN #APP-IM2700-E	NS
	B/O	-39	1		RED BARN PLACARD	ALUMINUM	RB41009	NS
	B/O	-41	4		RIVET	ALUMINUM	$\phi 1/8 \times 3/8$ EUGENE FASTNER & SUPPLY RAA46X	NS
2	B/O	-43			CUP POINT SET SCREW	S.S.	#10-32 X 1/4 MCMASTER-CARR #92313A825	2
1	B/O	-45			FLAT HEAD SCREW	PLATED ALLOY STEEL	1/2-13 X 1-1/4 MCMASTER-CARR #91263A603	2
1	B/O	-47			SPLIT PIN	STEEL	$\phi 5/32 \times 7/8$ MCMASTER-CARR #90692A712	2
ASSY -1								

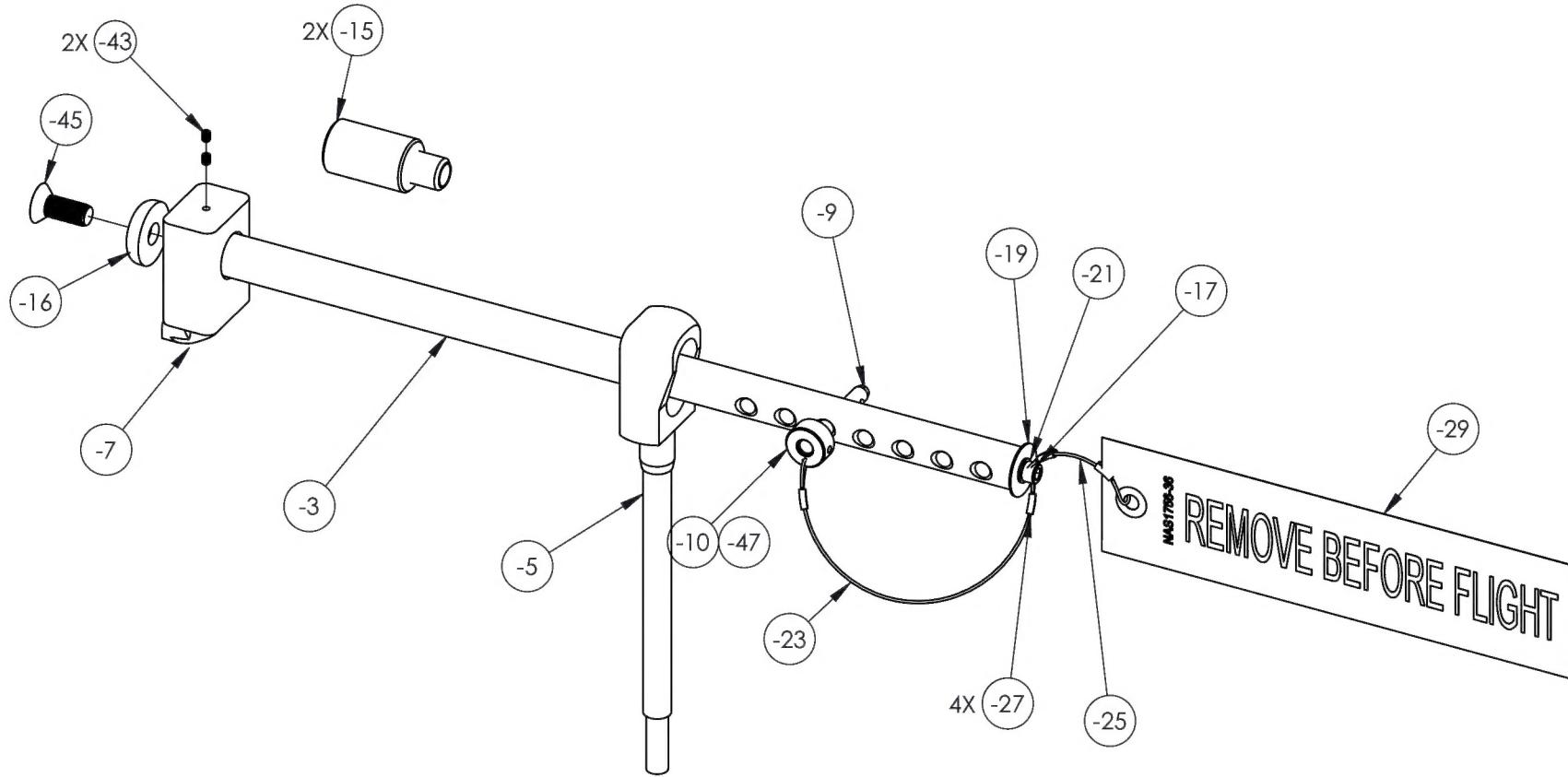
 RED BARN MACHINE

AW139 GAG BAR

TITLE	REV
AW139 GAG BAR	1
DWG NO.	REV
RBW10003	1
MATL	DRAWN BY:
UNLESS OTHERWISE SPECIFIED	GILBERT
DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
$.XXX \pm .005$	FRACTIONS $\pm 1/32$
$.XX \pm .01$	ANGLES $\pm 5^\circ$
$X \pm .1$	SPEC
1. BREAK ALL SHARP EDGES .015 X 45°	USED ON MODEL
OR .015R	AW139
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:8	DATE 7/23/2013
	SHEET 1 OF 11

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-11 ASSY. REPLACED WITH -15, DELETED -13 & -31. ADDED -10,-16 AND -45, -47.	9/27/13	PW	DW

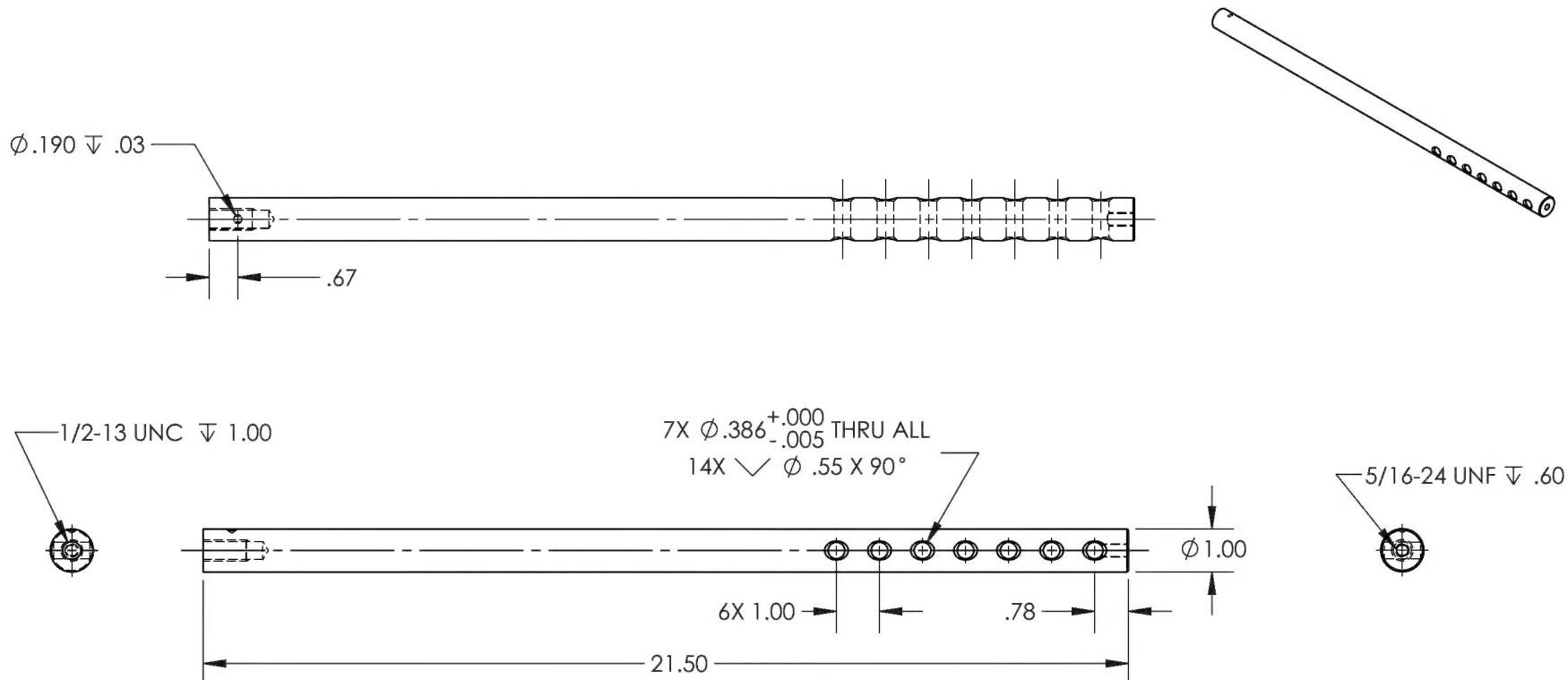


(-1)
GAG BAR ASSEMBLY

RED BARN MACHINE	
TITLE	AW139 GAG BAR
DWG NO.	RBW10003-1
REV	1
MATL	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED	APPROVED: <i>D Weil</i>
DIMENSIONS ARE IN INCHES	
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± .5°
.X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45°	HEAT
OR .015R	TREAT
2. DIMENSIONAL LIMITS APPLY AFTER	FINISH
PLATING	SPEC
	USED ON MODEL
	AW 139
SCALE	1:4
DATE	3/21/2013
SHEET	2 OF 11

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REVISIONS					
REV	DESCRIPTION	DATE	INITIAL	APPROVED	
A	-3 ADDED ϕ .190 ∇ .03 HOLE FOR -43 SET SCREW, CH'D FINISH WAS CLEAR ANODIZE IS RED ANODIZE.	9/3/2013	RJC	DW	
1	-3 CAP REMOVED, ADDED TAPPED HOLE 1/2-13 ∇ 1.00. CH'D MATERIAL WAS 6061 IS 1018 CD, CH'D FINISH WAS ANODIZE RED IS NICKEL PLATE. CH'D ROD DIA. WAS .99 IS 1.00. CH'D HOLE CALLOUT WAS 7X ϕ .377 IS 7X .386.	9/27/13	PW	DW	



(-3)

ROD

NOTE:
NICKEL PLATE .0004-.0006, BAKE AFTER PLATING.

 RED BARN MACHINE

TITLE

AW139 GAG BAR

DWG NO.

RBW10003-3

REV
1

MATL 1018 CD

DRAWN BY: GILBERT

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

APPROVED 

.XXX \pm .005 FRACTIONS \pm 1/32

HEAT TREAT

.XX \pm .01 ANGLES \pm .5°

FINISH NICKEL PLATE

.X \pm .1

SPEC SEE NOTE

1. BREAK ALL SHARP EDGES .015 x 45°

USED ON MODEL

OR .015R

AW139

2. DIMENSIONAL LIMITS APPLY AFTER

PLATING

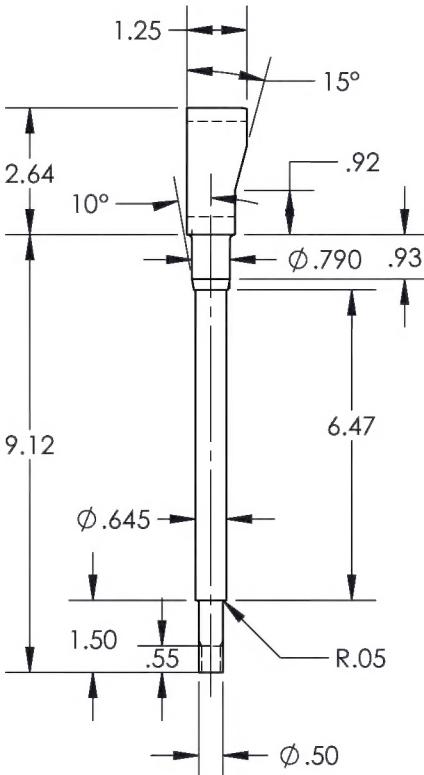
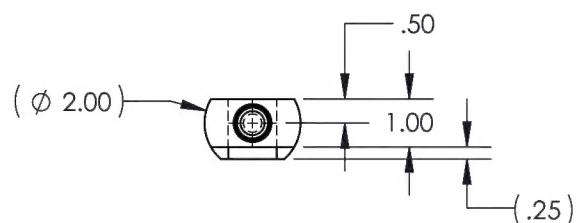
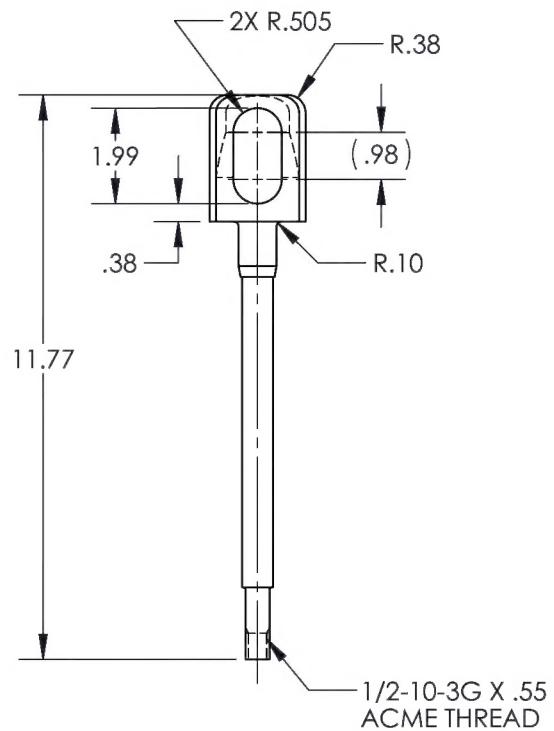
SCALE 1:4

DATE 5/31/2012

SHEET 3 OF 11

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REVISIONS					
REV	DESCRIPTION	DATE	INITIAL	APPROVED	
A	-5 CH'D 1/4-20 UNC COUNTERSINK WAS \checkmark ϕ .38 X 90° IS \checkmark ϕ .50 X 60°. CH'D FINISH WAS CLEAR ANODIZE IS RED ANODIZE.	9/3/2013	RJC	DW	
1	-5 REMOVED 1/4-20 \checkmark .75 THREADED HOLE AND ADDED EXTERNAL 1/2-10-3G ACME THREAD, INCREASED LENGTH OF SHAFT AND LENGTH OF SLOT, CH'D MATERIAL WAS 6061 IS 4140 HEAT TREATED. CH'D FINISH WAS ANODIZE RED IS .0004-.0006 NICKEL PLATE AND ADDED BAKE NOTE.	9/26/2013	PW	DW	



PIN BLOCK

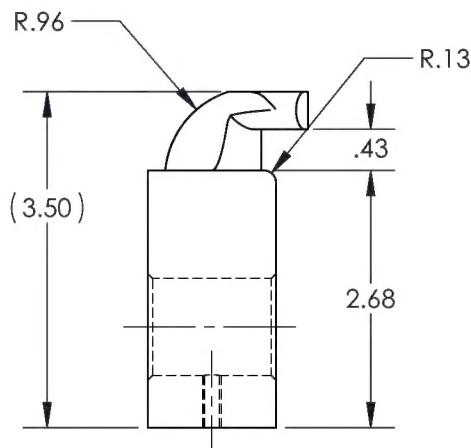
(-5)

NOTE:
NICKEL PLATE .0004-.0006, BAKE AFTER PLATING.

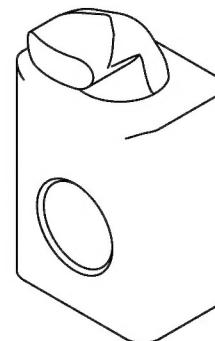
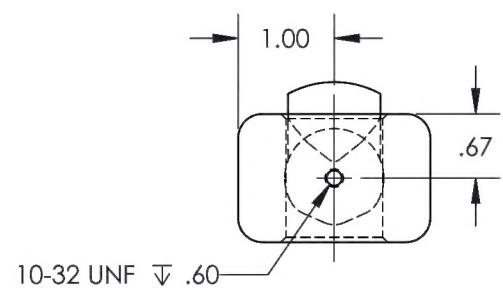
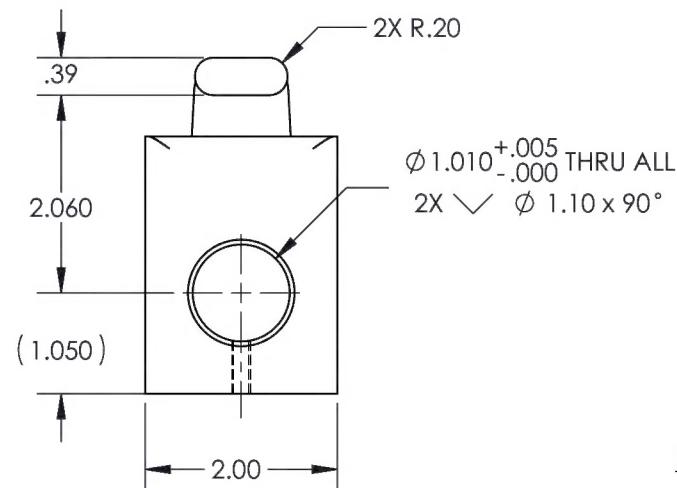
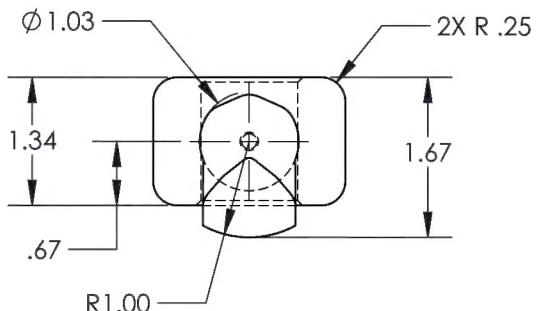
RB RED BARN MACHINE	
TITLE AW139 GAG BAR	
DWG NO. RBT10003-5 REV 1	
MATL. 4140	DRAWN BY: GILBERT APPROVED <i>D. Weil</i>
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX \pm .005	FRACTIONS \pm 1/32
.XX \pm .01	ANGLES \pm .5°
.X \pm .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SPEC SEE NOTE	
USED ON MODEL AW139	
SCALE 1:3	DATE 5/31/2012
SHEET 4 OF 11	

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REVISION				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
A	-7 ADDED #10-32 ∇ .60 HOLE FOR -43. CH'D FINISH WAS CLEAR ANODIZE IS RED ANODIZE.	9/3/2013	RJC	DW
1	-7 CH'D MATERIAL WAS 6061 IS 1018 CD. CH'D FINISH WAS ANODIZE RED IS .0004-.0006 NICKEL PLATE AND ADDED BAKE NOTE. CH'D HOLE DIA WAS 1.000 IS 1.010.	9/27/2013	PW	DW



(-7)
HOOK BLOCK



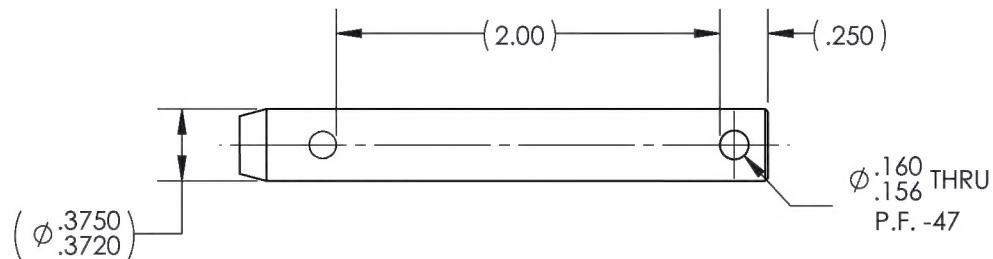
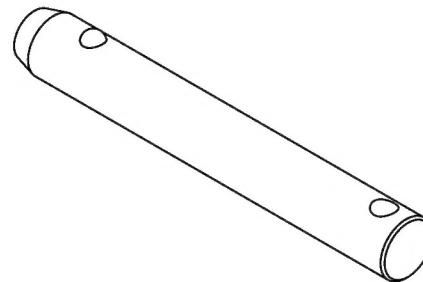
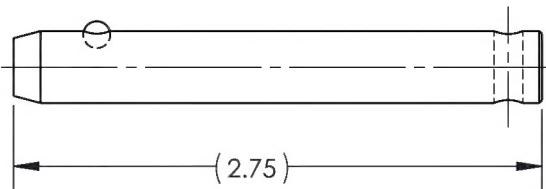
NOTE:

1. ALL PARTS MUST CONFORM TO FIXTURE RBW10003-TEST.
2. NICKEL PLATE .0004-.0006, BAKE AFTER PLATING.

RED BARN MACHINE	
TITLE	
DWG NO.	
MATL 1018 CD	DRAWN BY: GILBERT APPROVED <i>D Weil</i>
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	HEAT TREAT FINISH NICKEL PLATE
.XXX \pm .005	FRACTIONS \pm 1/32
.XX \pm .01	ANGLES \pm .5°
.X \pm .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC SEE NOTE 2
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL AW139
SCALE 1:2	DATE 5/31/2012
	SHEET 5 OF 11

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-9 DELETED ONE Ø.15 HOLE, CH'D ONE HOLE WAS Ø.15 IS .156-.160 P.F. -47.	12/26/2013	RJC	DW



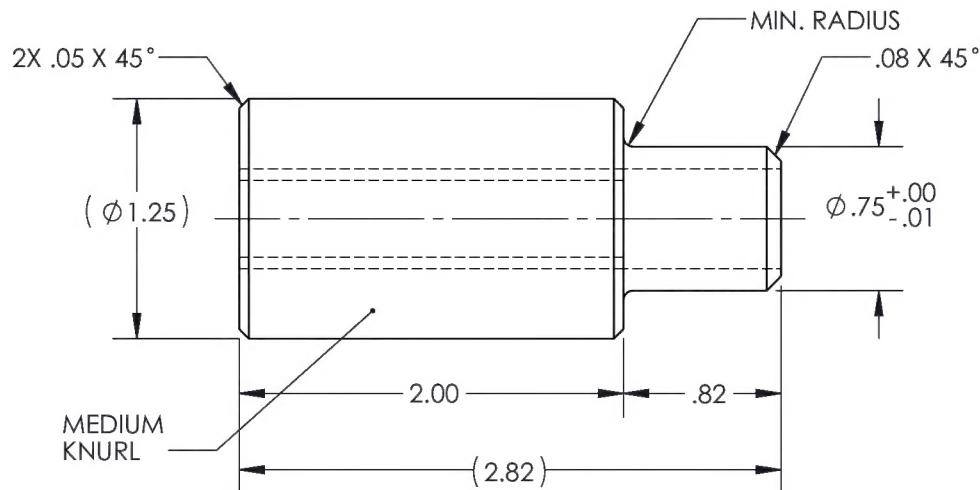
(-9)

QUICK RELEASE PIN

 RED BARN MACHINE	
TITLE	
AW139 GAG BAR	
DWG NO.	
RBW10003-9	
REV 1	
MATERIAL S.S.	
DRAWN BY: GILBERT	
APPROVED <i>D Weil</i>	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.005 FRACTIONS ± 1/32	
.01 ANGLES ± .5°	
.015R	
HEAT TREAT FINISH	
SPEC	
1. BREAK ALL SHARP EDGES .015 x 45°	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
USED ON MODEL	
AW139	
SCALE	1:2
DATE	6/13/2013
SHEET 6 OF 11	

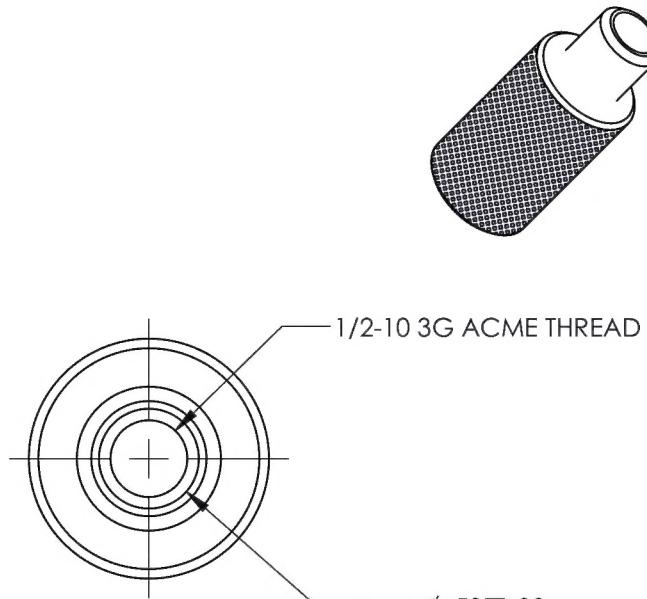
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REVISIONS					
REV	DESCRIPTION	DATE	INITIAL	APPROVED	
A	-15 CH'D FINISH WAS CLEAR ANODIZE IS RED ANODIZE.	9/5/2013	RJC	DW	
1	-15 CH'D GRIP LENGTH WAS .75 IS 2.00 AND OVERALL LENGTH CH'D WAS 1.75 IS 2.82. CH'D MAT'L WAS 6061 IS 1018 CD. REMOVED PIN HOLE AND THREADED HOLE, ADDED 1/2-10-3G ACME THREADS WITH COUNTER BORE. CH'D FINISH WAS ANODIZE RED IS .0004-.0006 NICKEL PLATE AND BAKE NOTE.	9/27/2013	PW	DW	



(-15)

KNOB



NOTE:
NICKEL PLATE .0004-.0006, BAKE AFTER PLATING.

 RED BARN MACHINE

TITLE

AW139 GAG BAR

DWG NO.

RBW10003-15

REV
1

MAT'L 1018 CD

DRAWN BY: GILBERT

UNLESS OTHERWISE SPECIFIED

APPROVED 

DIMENSIONS ARE IN INCHES

.XXX ± .005 FRACTIONS ± 1/32

.XX ± .01 ANGLES ± .5°

.X ± .1

1. BREAK ALL SHARP EDGES .015 x 45°

OR .015R

2. DIMENSIONAL LIMITS APPLY AFTER

PLATING

HEAT TREAT

FINISH NICKEL PLATE

SPEC SEE NOTE

USED ON MODEL

AW139

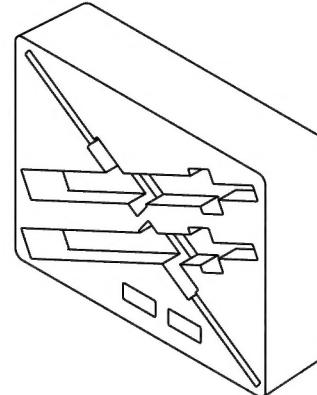
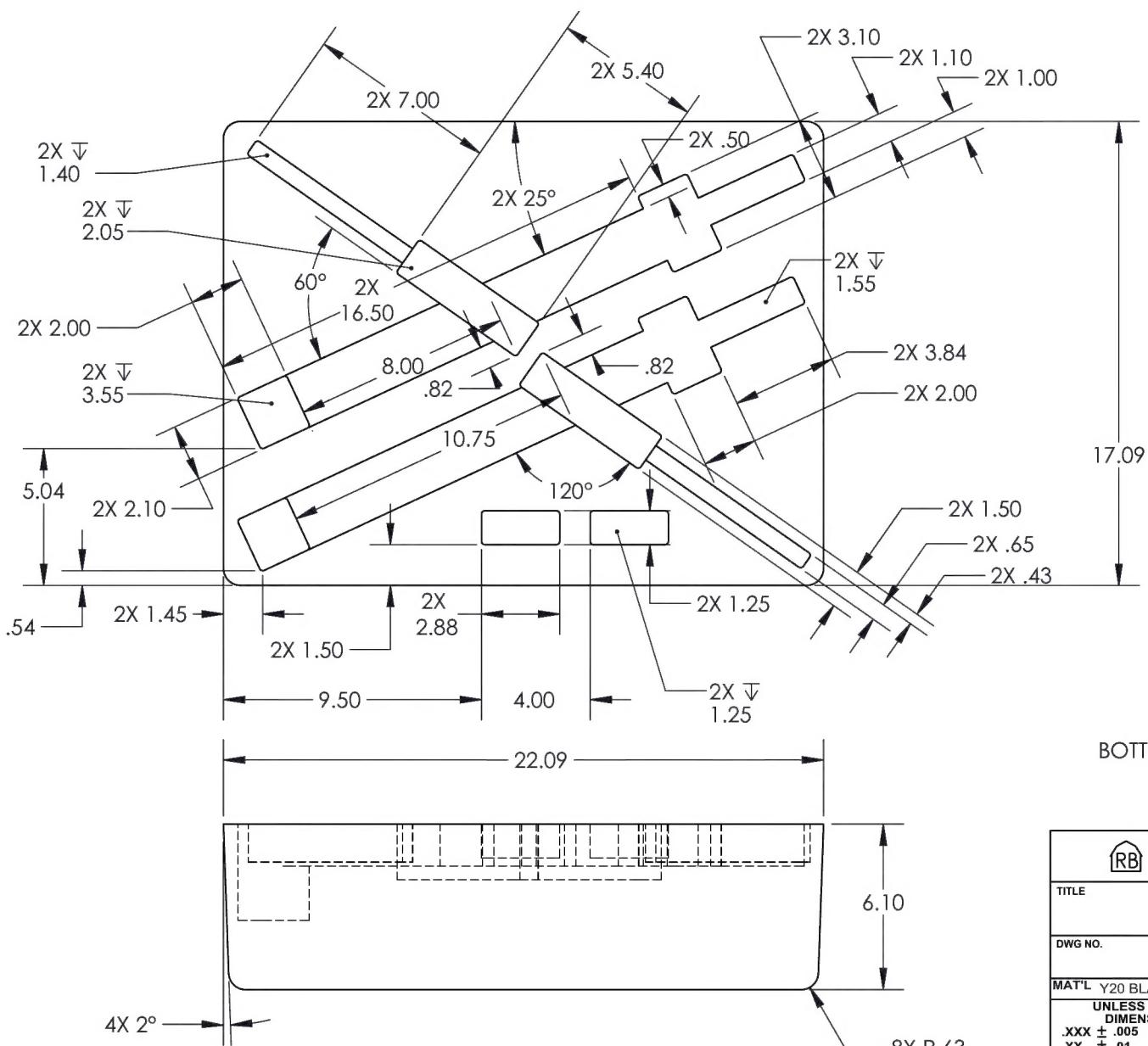
SCALE 1:2

DATE 7/23/2013

SHEET 7 OF 11

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-33 CH'D CUTOUTS FOR -1 AND -15.	9/27/13	PW	DW



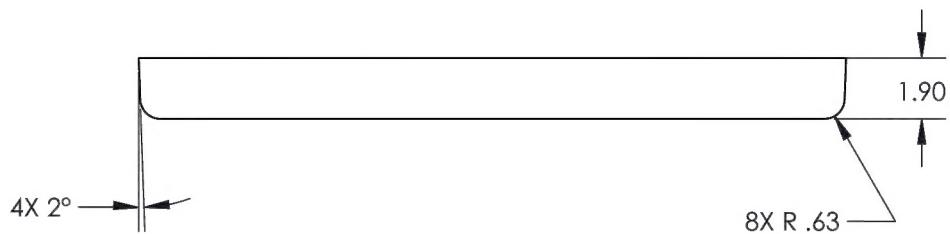
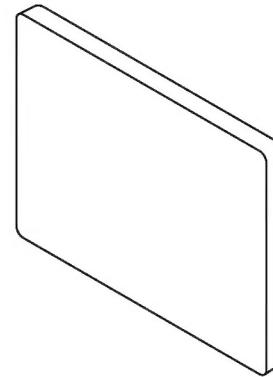
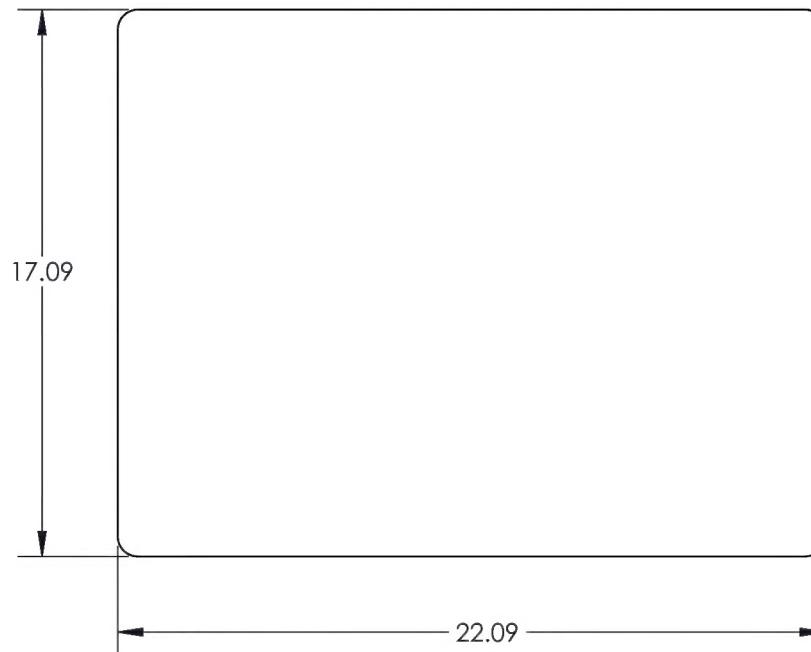
-33

BOTTOM TOOL CUSHION

 RED BARN MACHINE											
TITLE											
AW139 GAG BAR											
DWG NO.	RBW10003-33										
REV 1											
MAT'L Y20 BLACK <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;"> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES </td> <td style="width: 50%; text-align: center;"> DRAWN BY: GILBERT APPROVED: <i>D. Weil</i> </td> </tr> <tr> <td style="text-align: center;"> $.XXX \pm .005$ $XX \pm .01$ $X \pm .1$ </td> <td style="text-align: center;"> FRACTIONS $\pm 1/32$ ANGLES $\pm 5^\circ$ </td> </tr> <tr> <td colspan="2" style="text-align: center;"> 1. BREAK ALL SHARP EDGES $.015 \times 45^\circ$ OR $.015R$ </td> </tr> <tr> <td colspan="2" style="text-align: center;"> 2. DIMENSIONAL LIMITS APPLY AFTER PLATING </td> </tr> <tr> <td colspan="2" style="text-align: center;"> USED ON MODEL AW139 </td> </tr> </table>		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT APPROVED: <i>D. Weil</i>	$.XXX \pm .005$ $XX \pm .01$ $X \pm .1$	FRACTIONS $\pm 1/32$ ANGLES $\pm 5^\circ$	1. BREAK ALL SHARP EDGES $.015 \times 45^\circ$ OR $.015R$		2. DIMENSIONAL LIMITS APPLY AFTER PLATING		USED ON MODEL AW139	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT APPROVED: <i>D. Weil</i>										
$.XXX \pm .005$ $XX \pm .01$ $X \pm .1$	FRACTIONS $\pm 1/32$ ANGLES $\pm 5^\circ$										
1. BREAK ALL SHARP EDGES $.015 \times 45^\circ$ OR $.015R$											
2. DIMENSIONAL LIMITS APPLY AFTER PLATING											
USED ON MODEL AW139											
SCALE	DATE										
1:6	7/24/2013										
SHEET 8 OF 11											

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED

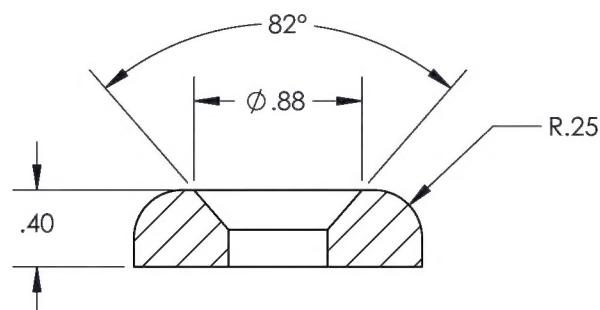
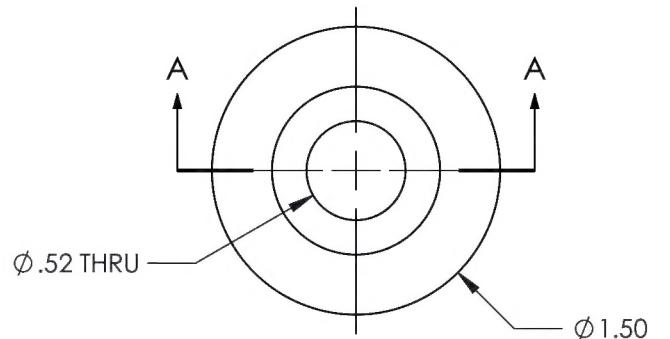


(-35)
TOP TOOL CUSHION

 RED BARN MACHINE	
TITLE	AW139 GAG BAR
DWG NO.	RBW10003-35
MATL	Y-20 BLACK
UNLESS OTHERWISE SPECIFIED	DRAWN BY: GILBERT
DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	HEAT
.X ± .1	TREAT
	FINISH
1. BREAK ALL SHARP EDGES .015 x 45°	SPEC
OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER	AW139
PLATING	
SCALE	1:6
DATE	7/24/2013
SHEET	9 OF 11

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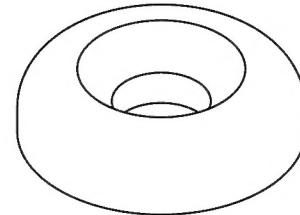
REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-16 ADDED TO BOM AND -1 ASSY.	9/27/13	PW	DW



SECTION A-A
SCALE 1 : 1

-16

BUTTON



NOTE:
NICKEL PLATE .0004-.0006, BAKE AFTER PLATING.



RED BARN MACHINE

TITLE

AW139 GAG BAR

DWG NO.

RBW10003-16

REV
1

MATL 1018 CD

DRAWN BY: WALLRICH

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

APPROVED *D Weil*

.XXX ± .005 FRACTIONS ± 1/32

HEAT TREAT

.XX ± .01 ANGLES ± .5°

FINISH NICKEL PLATE

.X ± .1

SPEC SEE NOTE

1. BREAK ALL SHARP EDGES .015 x 45°

USED ON MODEL

OR .015R

AW139

2. DIMENSIONAL LIMITS APPLY AFTER

PLATING

PLATING

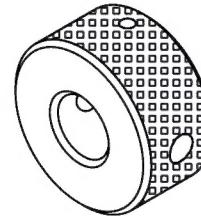
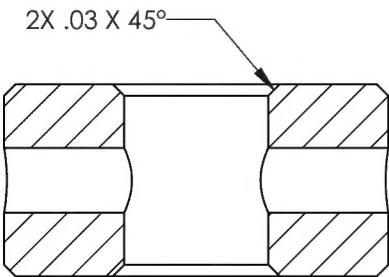
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DATE 9/26/2013

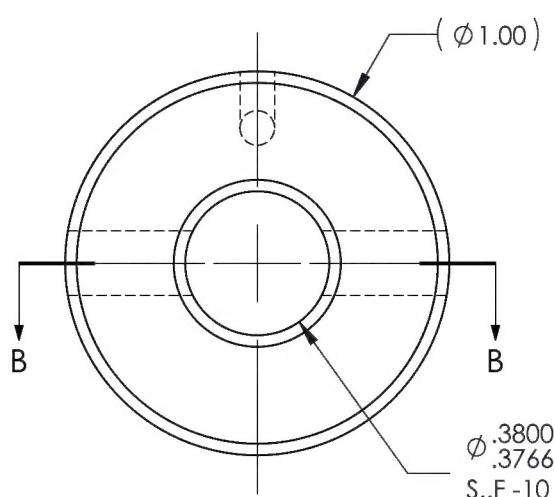
SHEET 10 OF 11

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-10 ADDED KNOB TO PUT ON -9.	12/19/2013	RJC	DW

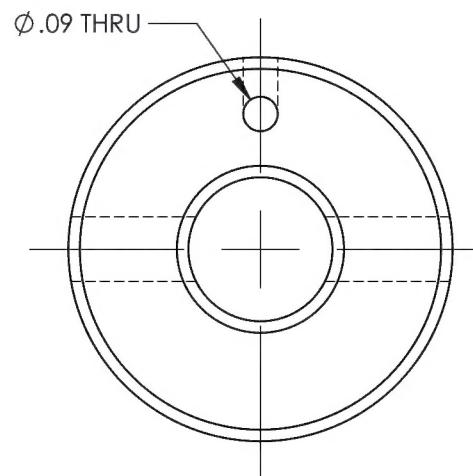


SECTION B-B



-10

KNOB



NOTE:
NICKEL PLATE .0004-.0006, BAKE AFTER PLATING.



RED BARN MACHINE

TITLE

AW139 GAG BAR

DWG NO.

RBW10003-10

REV
1

MATL 1018

DRAWN BY: CLOUGH

APPROVED

D Weil

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

.XXX ± .005 FRACTIONS ± 1/32

.XX ± .01 ANGLES ± .5°

.X ± .1

1. BREAK ALL SHARP EDGES .015 x 45°

OR .015R

2. DIMENSIONAL LIMITS APPLY AFTER PLATING

HEAT TREAT FINISH NICKEL PLATE

SPEC SEE NOTE

USED ON MODEL

AW139

SCALE 2:1 DATE 12/19/2013 SHEET 11 OF 11